

1991 GORDON RESEARCH CONFERENCE ON DRUG METABOLISM

FINAL PROGRAM

July 15-19, 1991

CHAIRMAN: Gerald T. Miwa, Ph.D.

VICE CHAIRMAN: Grant R. Wilkinson, Ph.D.

MONDAY, JULY 15TH

AM

ACTIVITY AND REACTIVITY OF PHASE II CONJUGATES

Chair: Leslie Z. Benet, Ph.D.

Acyl Glucuronides: Potential Toxicity Mediators

Speaker: Leslie Z. Benet, Ph.D.

Glutathione Conjugates as Potential Vehicles for the
Transport of Reactive Cytotoxic Intermediates

Speaker: Thomas Baillie, Ph.D.

Nephrotoxic Cysteine Conjugates: Linking Reactive
Metabolites to Cellular and Molecular Responses

Speaker: James L. Stevens, Ph.D.

PM

NOVEL DRUG METABOLISM REACTIONS

Chair: John Parli, Ph.D.

Biotransformation of the Secondary Amine Sertraline;
Evidence for the Formation of a Novel Carbamic Acid
Ester Glucuronide

Speaker: Larry M. Tremaine, Ph.D.

Biotransformation of Xenobiotics via Dehydrogenation;
a Novel Cytochrome P450 Catalyzed Reaction

Speaker: Kamlesh P. Vyas, Ph.D.

TUESDAY, JULY 16TH

AM

ROLE OF PEROXIDASES IN DRUG METABOLISM

Chair: John A. Thompson, Ph.D.

Structure and Mechanism of Peroxidases

Speaker: Paul R. Ortiz de Montellano, Ph.D.

Xenobiotic Metabolism Catalyzed by Prostaglandins H Synthase

Speaker: Thomas E. Eling, Ph.D.

Involvement of Myeloperoxidase in Mechanisms of Adverse Drug Reactions

Speaker: Jack Uetrecht, Ph.D.

PM

FLAVOPROTEIN MONOOXYGENASES

Chair: John R. Cashman, Ph.D.

Regulation of the Pulmonary Flavin-Containing Monooxygenase

Speaker: David E. Williams, Ph.D.

Structural Aspects of the Hepatic Flavin-Containing Monooxygenase

Speaker: John R. Cashman, Ph.D.

WEDNESDAY, JULY 17TH

AM

DRUG METABOLISM IN AUTOIMMUNE DISEASE

Chair: Lance R. Pohl, Ph.D.

The Chemical and Biochemical Basis of Drug Hypersensitivity

Speaker: B. Kevin Park, Ph.D.

Characterization of Several Endoplasmic Reticulum Neoantigens in Autoimmune Hepatitis Produced by Inhalation Anesthetics

Speaker: Lance R. Pohl, Ph.D.

Cytochromes P-450 as Autoantigens in Autoimmune Liver Disease

Speaker: Eric F. Johnson, Ph.D.

PM

THE DISPOSITION OF PROTEINS AND OLIGONUCLEOTIDES

Chair: Bobbe Ferraiolo, Ph.D.

The Metabolism of Recombinant Therapeutic Proteins

Speaker: Margie A. Mohler

The Disposition of Phosphorothioate Oligonucleotides

Speaker: Patrick Iversen, Ph.D.

THURSDAY, JULY 18TH

AM **EXPRESSION OF DRUG METABOLIZING ENZYMES: APPLICATIONS TO
THE PHARMACEUTICAL INDUSTRY**

Chair: Cecil B. Pickett, Ph.D.

**Expression of Human Cytochrome P-450 Enzymes in Yeast
and Bacteria**

Speaker: F. Peter Guengerich, Ph.D.

In Vivo Models of Human Drug Metabolism

Speaker: Steve Wrighton, Ph.D.

Expression and Mutagenesis of Conjugating Enzymes

Speaker: Richard Armstrong, Ph.D.

PM **KEYNOTE SPEAKER - TO BE ANNOUNCED**

FRIDAY, JULY 19TH

AM **NEW ANALYTICAL APPROACHES IN DRUG DISPOSITION**

Chair: Grant R. Wilkinson, Ph.D.

**Stable Isotopes or Heteroatoms as Tracers in Drug
Metabolism Studies Using Mass Spectrometry**

Speaker: Fred P. Abramson, Ph.D.

**NMR-based Strategies Applied to Drug Metabolism and
Quantitative Structure-Metabolism Relationships**

Speaker: Jeremy K. Nicholson, Ph.D.